

# Jeremy Shaw

California State University, Sacramento, cumulative GPA 3.41  
AUGUST 2017 - MAY 2020, B.S. Computer Engineering

**Clubs and Extracurriculars:** Tau Beta Pi, IEEE, ACM, (IPC)

## EXPERIENCE

Caltrans, Sacramento, CA — *Engineering Intern*  
JULY 2018- JANUARY 2020

- Content Editor for professional development materials, allowing for in-class content to be digitized and delivered statewide
- Content Editor for Caltrans internal website (Onramp), helping support the mission of my office (Professional Development) by creating greater internal awareness of our services.
- Style Editor for WorkFlow Task Manual (w.i.p; project development procedures manual), updating an ancient, central document, allowing for greater, statewide collaborative efforts to update the guide to modern standards

Raisecom USA, Clearwater, FL — *IT & Inventory*  
FEBRUARY 2010 - JANUARY 2015

- Developed & maintained web presence (CMS), email systems, IT SW/HW support, procurement, etc for employees across CA, FL, & TX, allowing effective teamwork across 3 time zones.
- Organized daily shipping and inventory for CA warehouse & inventory reconciliation with FL warehouse, creating a culture of rapid shipping fulfillment
- Coordinated and documented end-of-year inventory counts
- Lead a transition from Google Apps to Office 365 to implement process control
- Supported company at various conferences (CeBit, Cablecom, Optical Fiber Conference - OFC, LinuxWorld)

## PROJECTS

Elderly Assistance Robot, Senior Design, CSUS  
Fall 2019 - PRESENT

- Worked as a team of 4 undergraduates to specify, design, and build a semi-autonomous robot for the purpose of assisting elderly and limited mobility persons.
  - Used CAD, physical buildout, and systems design to rapidly refactor the robot into an optimal design
- Skills used: Git, C/Wiring, Python, team leadership, team dynamics, soldering, systems development

Micro-Greenhouse CpE185, CSUS  
Spring 2018, [github.com/jeremyshaw/microgreenhouse/](https://github.com/jeremyshaw/microgreenhouse/)

- Worked as a group of 4 undergraduates to create an automated Micro-Greenhouse to sustain plant life
  - Created interfaces for sensors to monitor plant health
  - Created framework for I2C master Raspberry Pi and I2C slave Arduinos
  - Utilized Pi as web GUI, 3 microcontrollers to interface with devices and sensors
- Skills used: Git, C/Wiring, Python, soldering, electrical schematic/layout design, I2C, debugging and integration of independently developed systems

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## LANGUAGES/TOOLS

Python, C, VHDL, Verilog, X86 ASM, SQL, Java, HTML, JavaScript, CSS

Pandas, NumPy

Vivado, Quartus, (Altium Designer), OrCAD, FreeCAD + Cura, Visual Studio, vim, Jupyter Notebook

## Spoken Languages:

English, Mandarin

## SKILLS

System programming (C, x86 ASM)

HDL (Verilog, VHDL)

Basic IC layout (Cadence Virtuoso) and simulation/verification

Network analysis (Wireshark, python sockets)

Git Version Control

CAD & 3D Printing (FreeCAD + Cura) for self designed projects

Databases (mysql)

Self-Documented Code

Software Debugging

Microsoft Office (Excel, PowerPoint, Outlook, Word)

Technical writing (manuals)

Time-Management

Computer Networks

Media Editing (Photoshop, Captivate, Resolve, Premiere, Acrobat)

